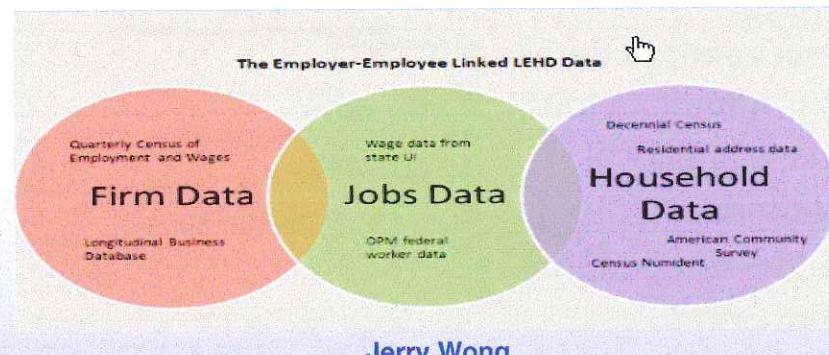


Local Employment Dynamics: Quarterly Workforce Indicators QWI Explorer



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Agenda

- Overview of Local Employment Dynamics (LED)
- Understanding N.A.I.C.S.
- LED Web Tools
- Step-by-step Instructions
- Additional Resources



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high-value government data

Government Plan to unlock public access to

- LED is an integral part of the DOC Open
- integrates existing data from state-supplied employers
- administrative records on workers and

Local Employment Dynamics (LED) Data

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Employment record of U.S.

- Provides longitudinal detail about America's jobs,
- upprecedented detail workers and local economies.
- Provides Local Employment record of U.S.

The graph shows the percentage of total employment entering or leaving the labor force from 1995 to 2012. The Y-axis represents the percentage of total employment, ranging from 0 to 35. The X-axis represents years from 1995 to 2011. The LEDD Hires line (blue) starts at approximately 15% in 1995, drops to around 10% by 2000, and then fluctuates between 10% and 15%. The LEDD Leaves line (red) starts at approximately 10% in 1995, rises to a peak of about 15% in 2000, and then fluctuates between 10% and 15%. The JOLTS Hires line (green) starts at approximately 10% in 1995, rises to a peak of about 15% in 2000, and then fluctuates between 10% and 15%. The JOLTS Leaves line (orange) starts at approximately 5% in 1995, rises to a peak of about 10% in 2000, and then fluctuates between 5% and 10%.

Local Employment Dynamics (LED) Data

Local Employment Dynamics Partnership

- Then:
 - Begun in late 1990s with a few states
 - Goal to generate **new labor market statistics** from existing records (UI and firm info)
- Now:
 - 53 partner states/territories
 - 3 data products
 - 4 web-based data tools
 - A culture of innovation and cost savings



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Building on State Inputs

- We combine **state records** with other admin/census/survey data from the **Census Bureau** and **other Federal agencies**
- We can then create public statistics on:
 - Firms & Establishments
 - Jobs & Workers
 - By Firm and Person Characteristics
- Without new respondent burden



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Characteristics

- Firm Characteristics crossed with Worker
- 100% Coverage of UI Covered Jobs
- Detailed Geography
- Data Currency
- Accessible via Powerful and easy-to-use tools
- Flexible Outputs: PDF reports, Excel tables, high-quality images, and shapefiles

Why Are LED Data Special?



Getting Started: Learning Your Industry NAICS Codes

- North American Industry Classification System
 - Launched in 1997 as part of NAFTA
 - Codes are updated every 5 years
 - Hierarchical

Level	Code	Examples
Sector	45	Retail Trade
Sub-Sector	451	Sporting Goods, Hobby, Book, and Music Stores
Industry Group	4511	Sporting Goods, Hobby, and Musical Instrument Stores
Industry	45112	Hobby, Toy, and Game Stores
U.S. Industry	451120	Hobby, Toy, and Game Stores



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NAICS Search

<http://www.census.gov/eos/www/naics/>

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[You are here: \[Census.gov\]\(#\) • \[Business & Industry\]\(#\) • NAICS](#)

[Main](#) [History](#) [Development Partners](#) [Federal Register Notices](#) [MAPS](#) [FAQs](#)

NAICS Search:

Enter keyword or 2-6 digit code

[2012 NAICS Search](#)

Enter keyword or 2-6 digit code

[2007 NAICS Search](#)

Enter keyword or 2-6 digit code

[2002 NAICS Search](#)

[Downloads/Reference Files/Tools](#)

[2012 NAICB](#)

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This official U.S. Government Web site provides the latest information on plans for NAICS revisions, as well as access to various NAICS reference files and tools. The North American Industry Classification System (NAICS) is the standard used by Federal statistical agencies in classifying business establishments for the purpose of collecting, analyzing, and publishing statistical data related to the U.S. business economy. NAICS was developed under the auspices of the Office of Management and Budget (OMB), and adopted in 1997 to replace the Standard Industrial Classification (SIC) system. It was developed jointly by the U.S. Economic Classification Policy Committee (ECPC), Statistics Canada [\[link\]](#), and Mexico's Instituto Nacional de Estadística y Geografía [\[link\]](#), to allow for a high level of comparability in business statistics among the North American countries.

The official 2012 U.S. NAICS Manual includes definitions for each industry, background information, tables showing changes between 2007 and 2012, and a comprehensive index. The official 2012 U.S. NAICS Manual is available in print and on CD-ROM from the National Technical Information Service (NTIS) at (800) 553-6847 or (703) 605-6000, or through the [NTIS](#) Web site. Previous versions of the NAICS Manual are available.

Additional information on the background and development of NAICS is available in the [History](#) section of this Web site.

<http://onthemap.ces.census.gov/>

OnTheMap

Recognized by United Nations as a major U.S. statistical innovation

What are the commuter flows of a particular area?

Where do residents work?

Where do workers live?

Where do people live, work, and commute?

Demographics: age, race, ethnicity, education, income, sex, firm size, industry, occupation, firm characteristics: NAICS Sector, firm age, and firm size

2002-2014 annual data

50 states available (plus D.C.)

User-selected areas

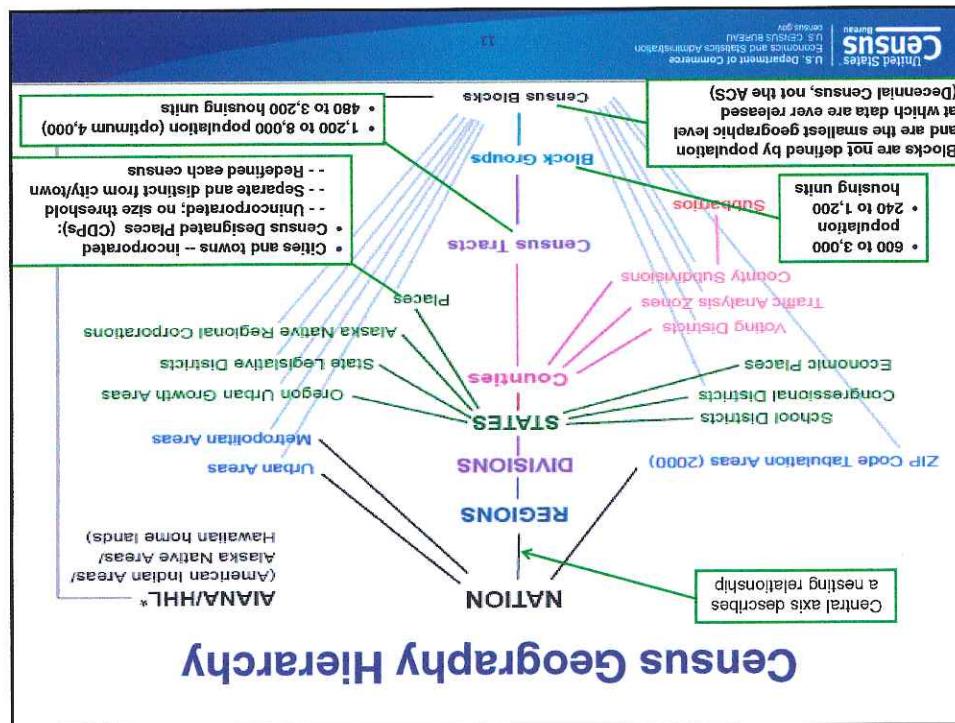
Based on Census Blocks

Disclosure protection

Analyze/report by firm

Analyze/report by worker

What are the characteristics of a particular area?



OnTheMap for Emergency Management

Highlights:

- Detailed social, economic, and housing data from the American Community Survey (ACS)
- Generate reports for specific communities for regional, local, and comparative analyses
- New charts & improved dashboard interface
- Improved event search tool
- New linkable maps and reports for easier sharing

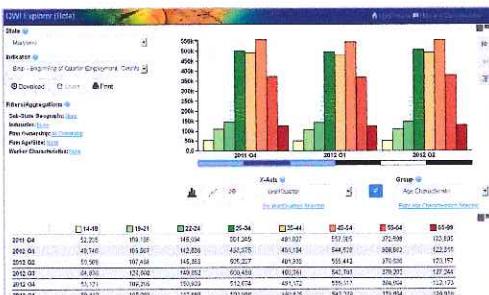
<http://onthemap.ces.census.gov/em.html>

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QWI Explorer

- ✓ 32 Quarterly Workforce Indicators
- ✓ Flexible Pivot Table and Map/Chart interface
- ✓ Data on detailed interactions between firms and workers include employment, employment change (individual and firm), and earnings
- ✓ Analyze/report by worker demographics: age, earnings, race, ethnicity, educational attainment, and sex
- ✓ 50 states available (including the District of Columbia)
- ✓ Analyze/report by firm characteristics: NAICS classification (sector, 3, 4), firm age, and firm size
- ✓ Quarterly data very current (9-12 months old)



<http://qwiexplorer.ces.census.gov/>

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Public Data Tools

All tools are free and available 24/7

- <http://ledextract.ces.census.gov/>
- LED Extraction Tool
- <http://onthemap.ces.census.gov/em.html>
- OntheMap for Emergency Management
- <http://onthemap.ces.census.gov/>
- OntheMap
- <http://qwiexplorer.ces.census.gov/>
- QWI Explorer

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QWI Extraction Tool

<http://ledextract.ces.census.gov/>



- Comprehensive
- Quick Results
- Intuitive Interface
- Easy-to-Use
- QWI Data Coverage

Useful Links

- **QWI Explorer**
 - Video Walkthrough:
http://lehd.ces.census.gov/applications/help/qwi_explorer.html#!video_walkthrough
 - Example Scenarios:
http://lehd.ces.census.gov/applications/help/qwi_explorer.html#!example_scenarios
- **OnTheMap**
 - Getting Started:
<http://lehd.ces.census.gov/doc/help/onthemap/GettingStartedwithOnTheMap.pdf>
 - Analysis Guides:
http://lehd.ces.census.gov/applications/help/onthemap.html#!analysis_guides
 - Other Tutorials:
http://lehd.ces.census.gov/applications/help/onthemap.html#!more_tutorials



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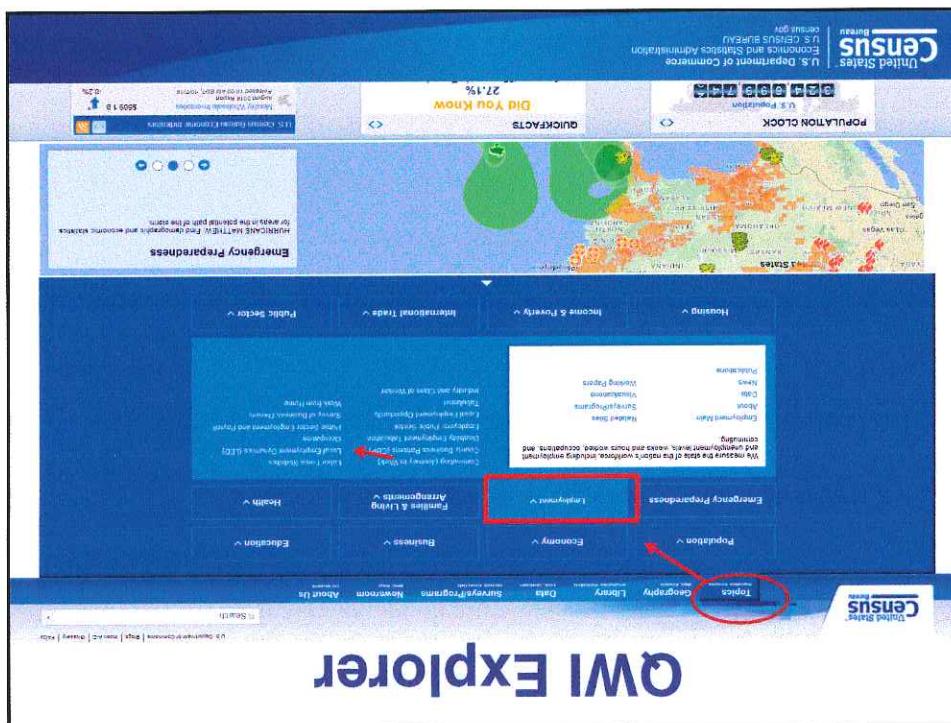
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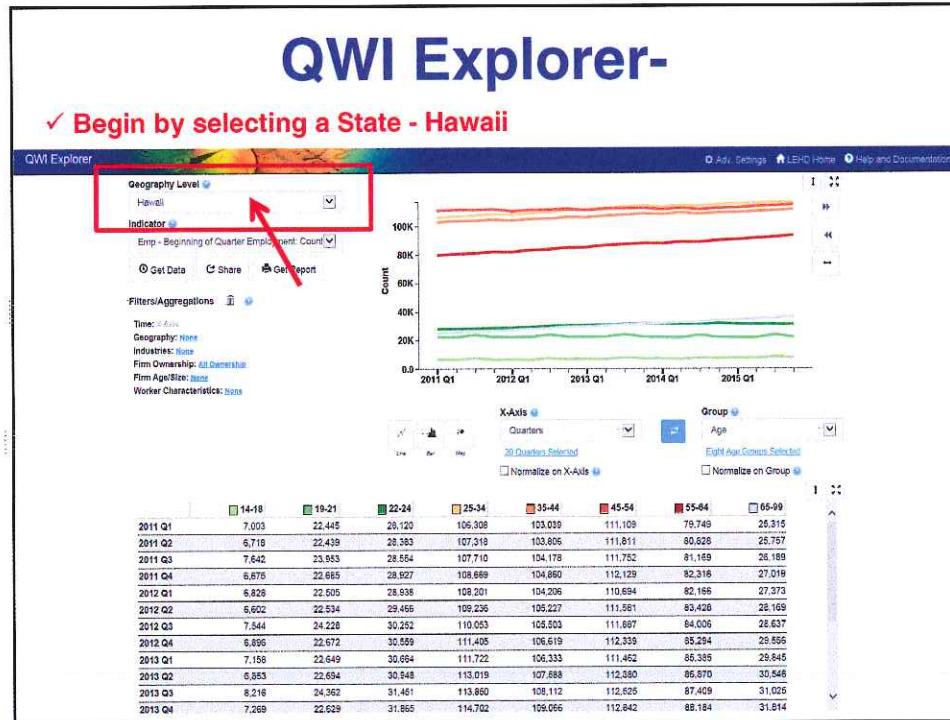
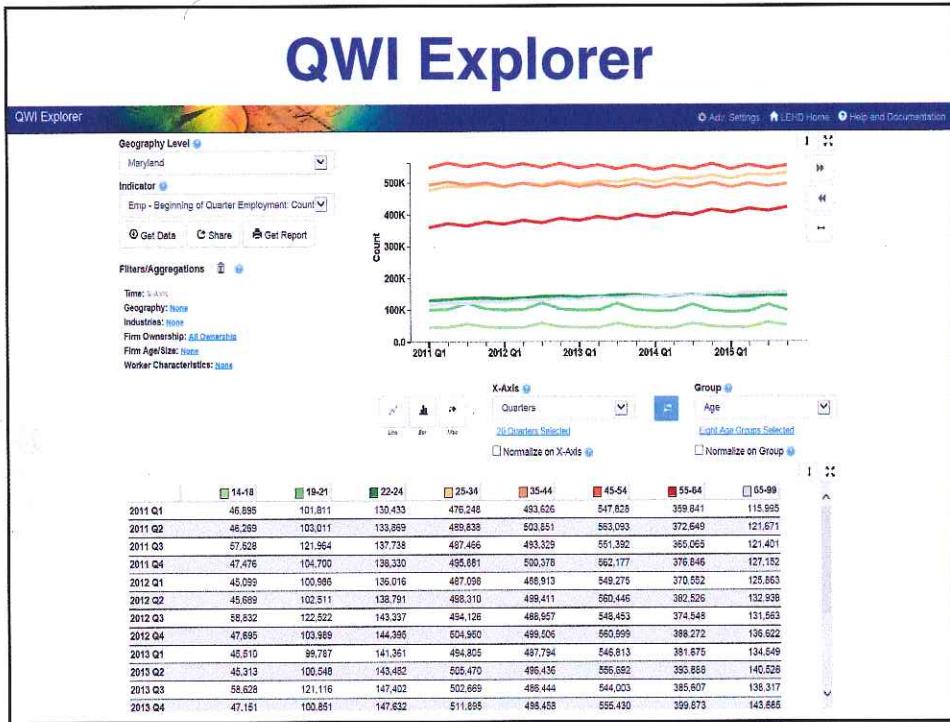
Step-by-Step Instructions:

QWI Explorer



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QWI Explorer- Filters/Aggregations

Set Filters/Aggregations

Time	Metro/Micropolitan Areas	1994
------	--------------------------	------

Check All | Check None | Insert Selection

- 1501 Hawaii HI
- 1603 Honolulu HI
- 1603 Keweenaw HI
- 1603 Kona HI
- 1603 Maui HI

Filters/Aggregations

Time: X-Axis
Geography: None
Industries: None
Firm Ownership: All Ownership
Firm Age/Size: None
Worker Characteristics: None

Check All | Check None | Insert Selection

- 11 Agriculture, Forestry, Fishing and Hunting
- 21 Mining, Quarrying, and Oil and Gas Extraction
- 22 Utilities
- 23 Construction
- 31-53 Manufacturing
- 42 Wholesale Trade
- 44-49 Transportation and Warehousing
- 51 Information
- 52 Finance and Insurance
- 43 Real Estate and Rental and Leasing

Firm Ownership

- All Ownership
- All Private Ownership

Firm Age

- 0-1 Years
- 2-3 Years
- 4-5 Years
- 6-10 Years
- 11+ Years

Firm Size

- 0-19 Employees
- 20-49 Employees
- 50-249 Employees
- 250-499 Employees
- 500+ Employees

Select Worker Characteristics by:

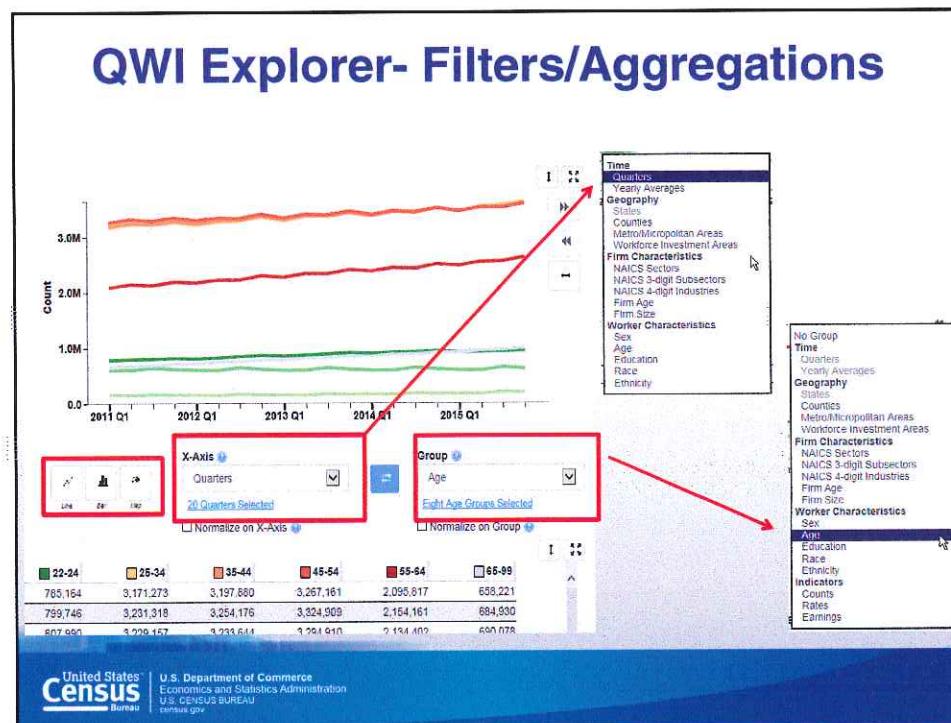
Sex and Age
Sex and Education
Race and Ethnicity

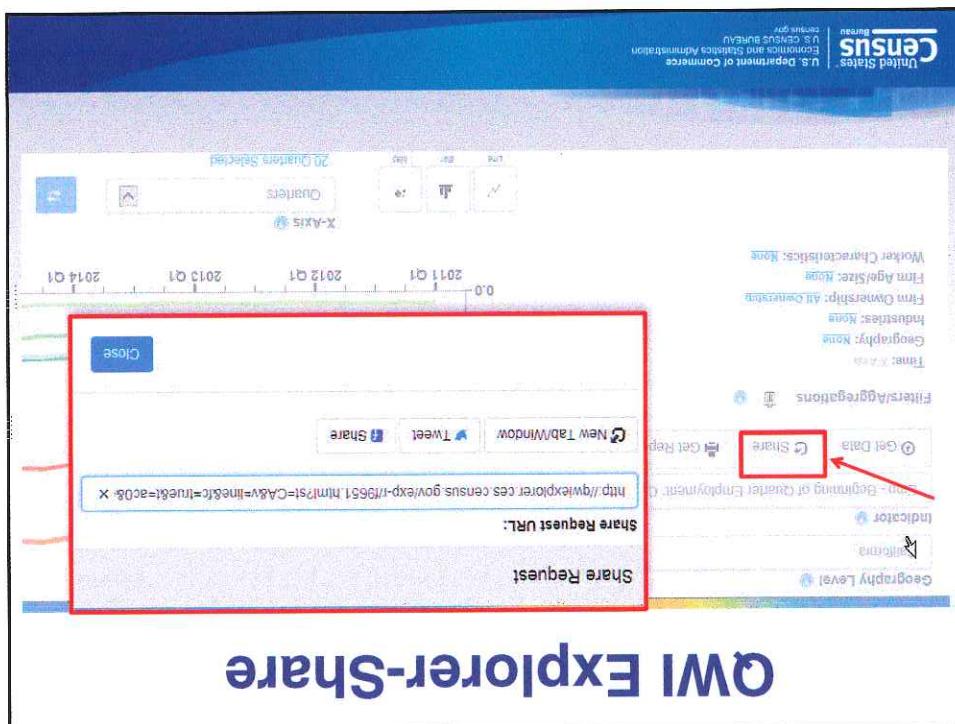
- Male
- Female

Age

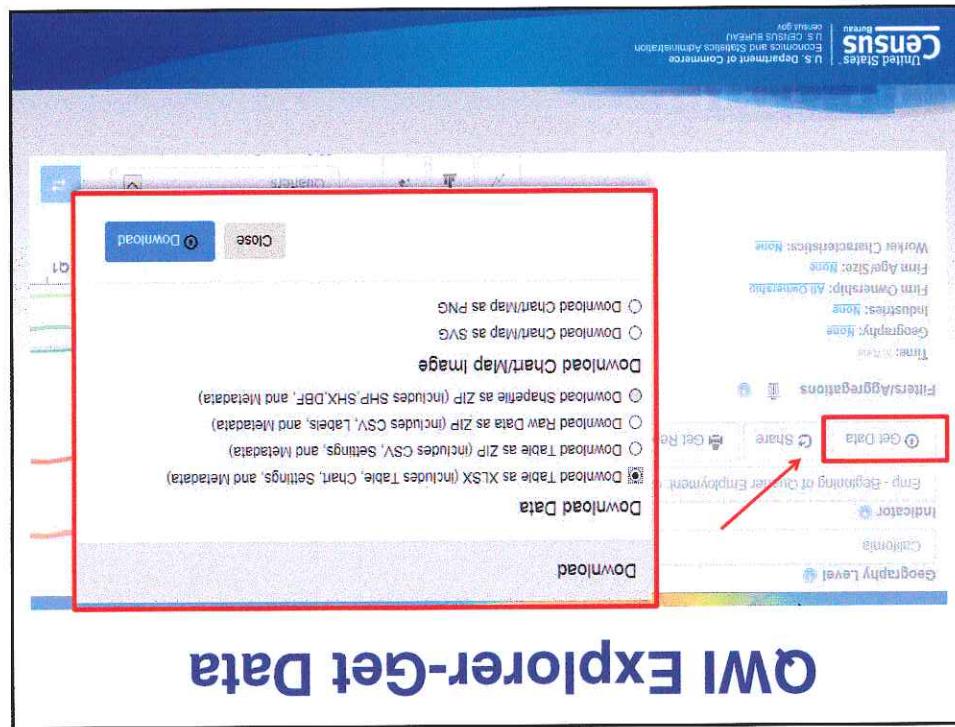
- 14-15
- 16-21
- 22-24
- 25-34
- 35-44
- 45-54
- 55-64
- 65-99

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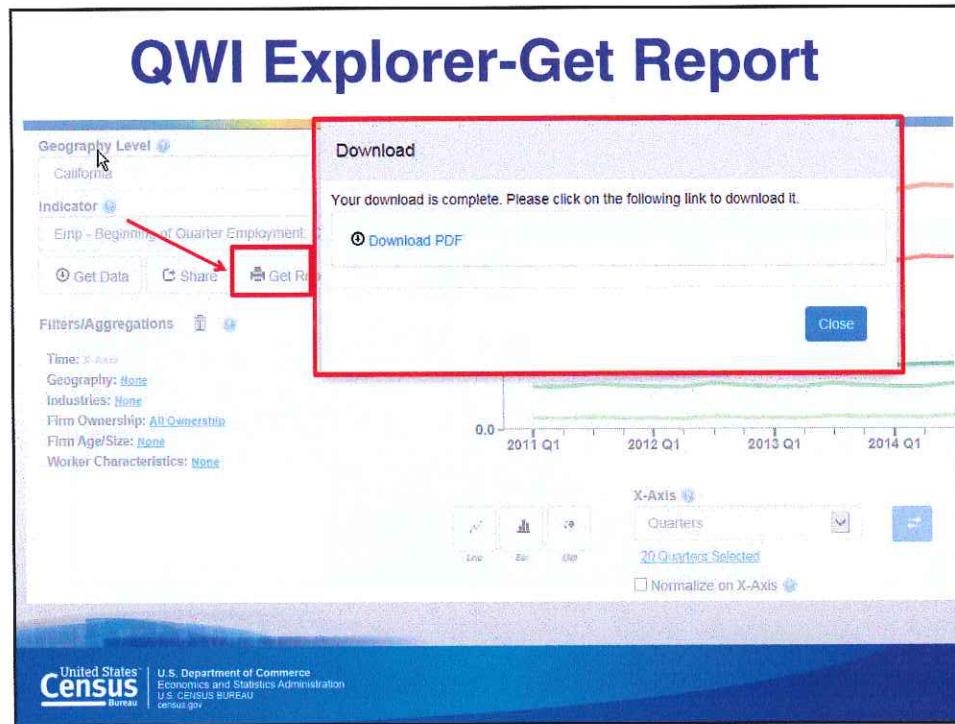




QWI Explorer-Share



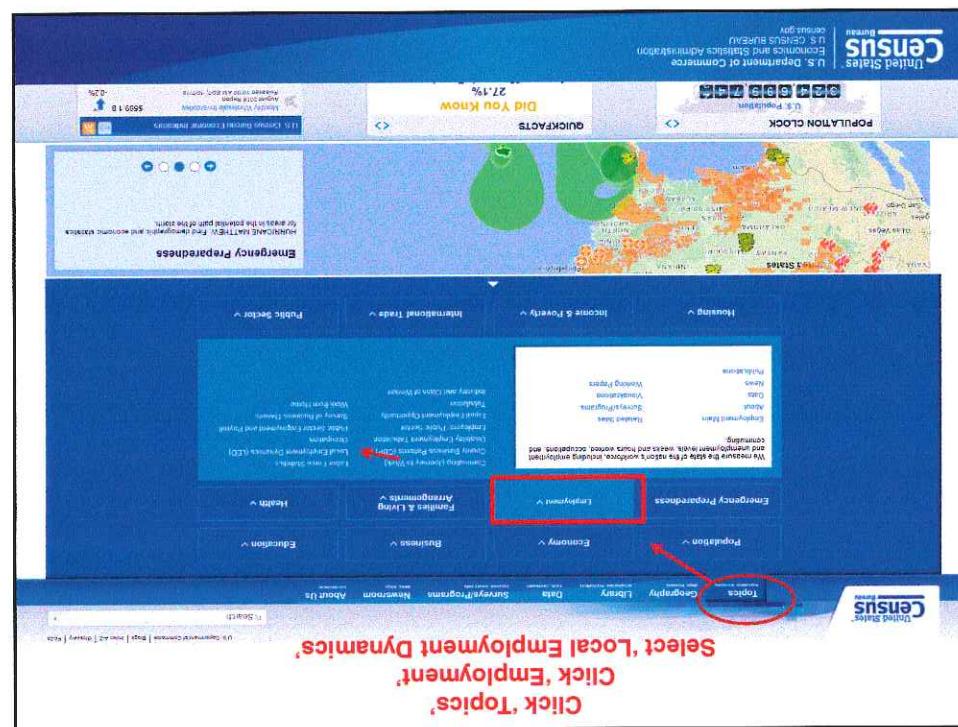
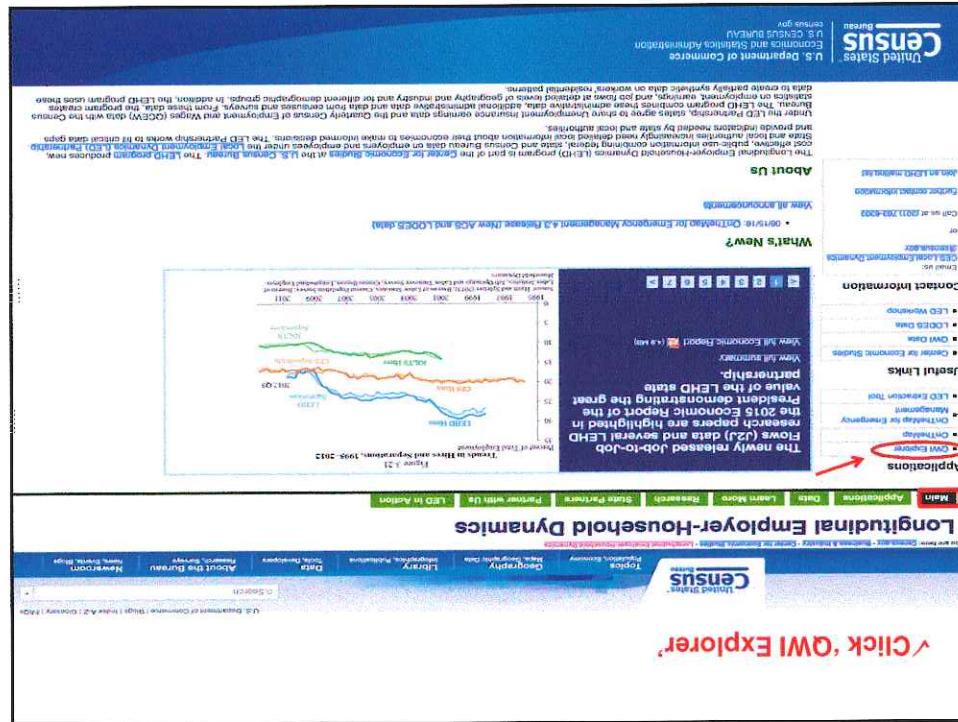
QWI Explorer-Get Data



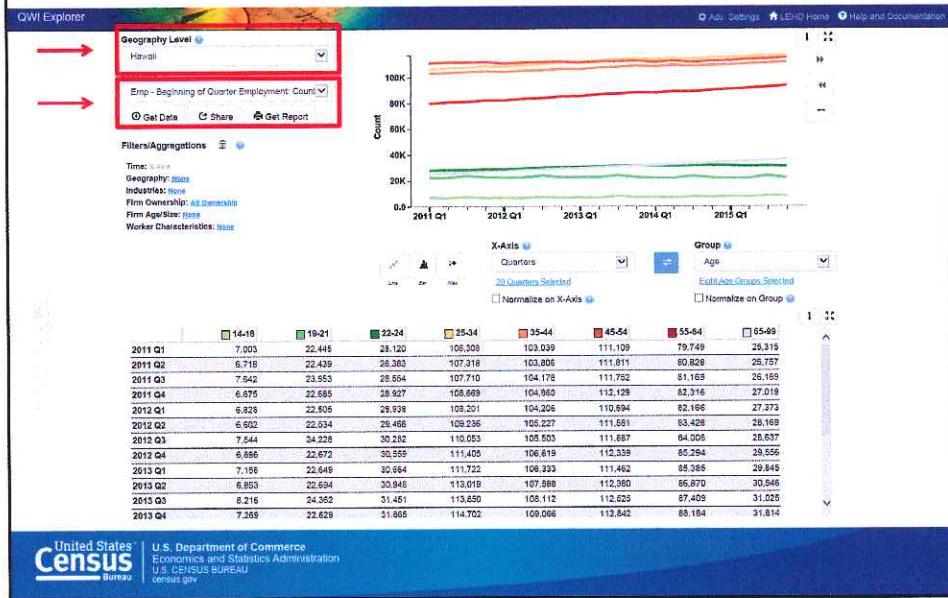
Questions:

- Health care and social assistance is a leading industry in Hawaii. What are the employment levels for counties in Hawaii?
- How has employment changed over time?

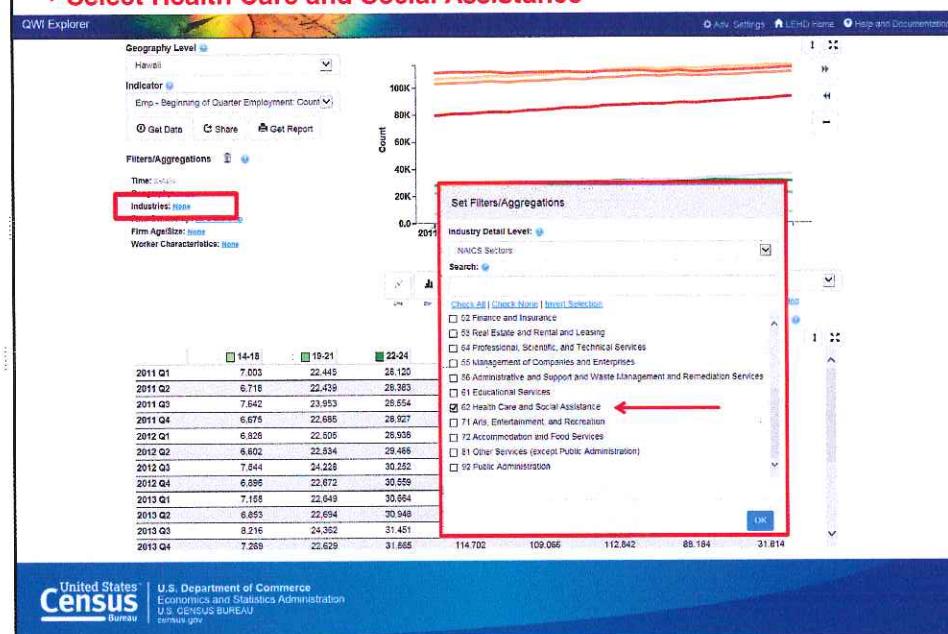
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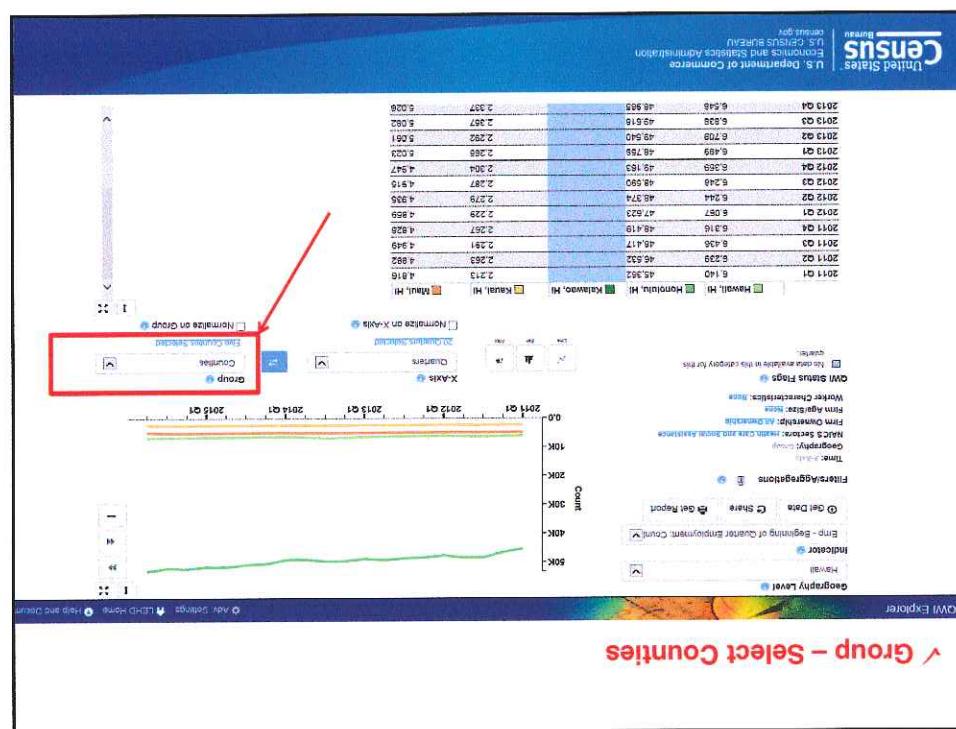
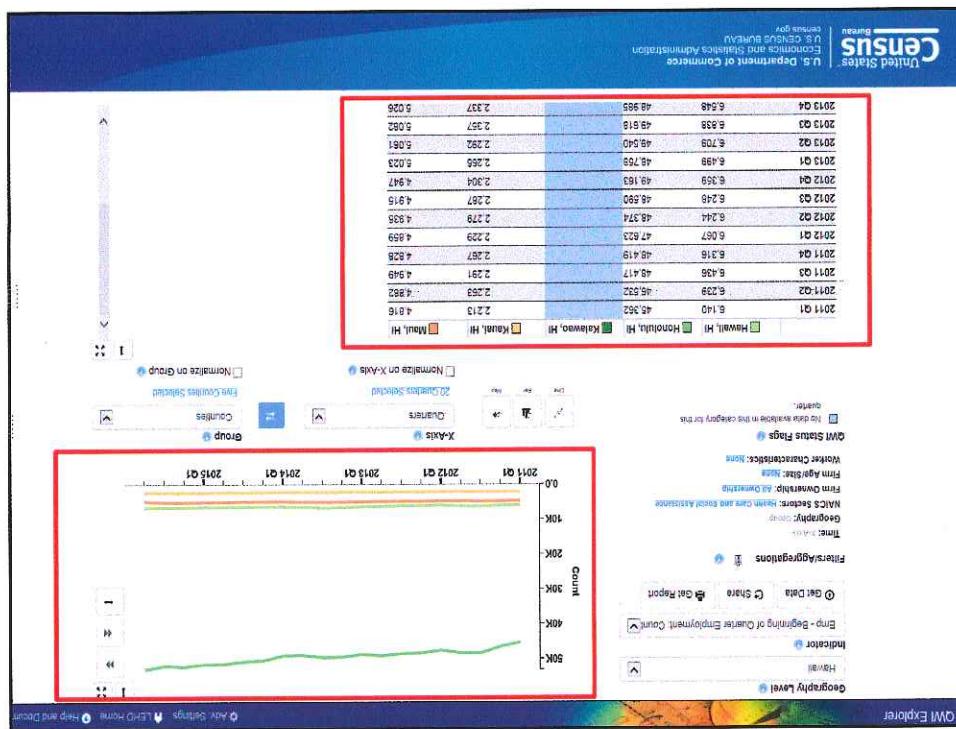


- ✓ Geography Level – Select California
 ✓ Indicator – Emp-Beginning of Quarter Employment County



- ✓ Filter/Aggregations – Click Industries
 ✓ Select Health Care and Social Assistance





Answers:

- Health care and social assistance is a leading industry in Hawaii. What are the employment levels for counties in Hawaii? See table.
- How has employment changed over time?
 - Steady Growth in the 4th Quarter of 2015 in Honolulu County
 - Hawaii, Kauai, Maui counties even distribution



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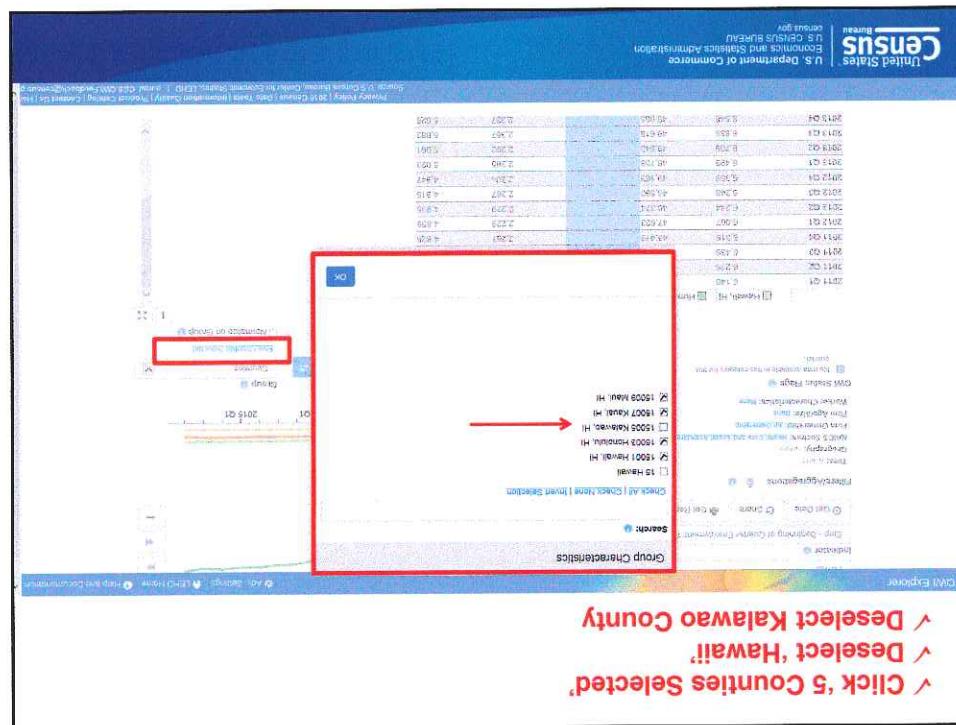
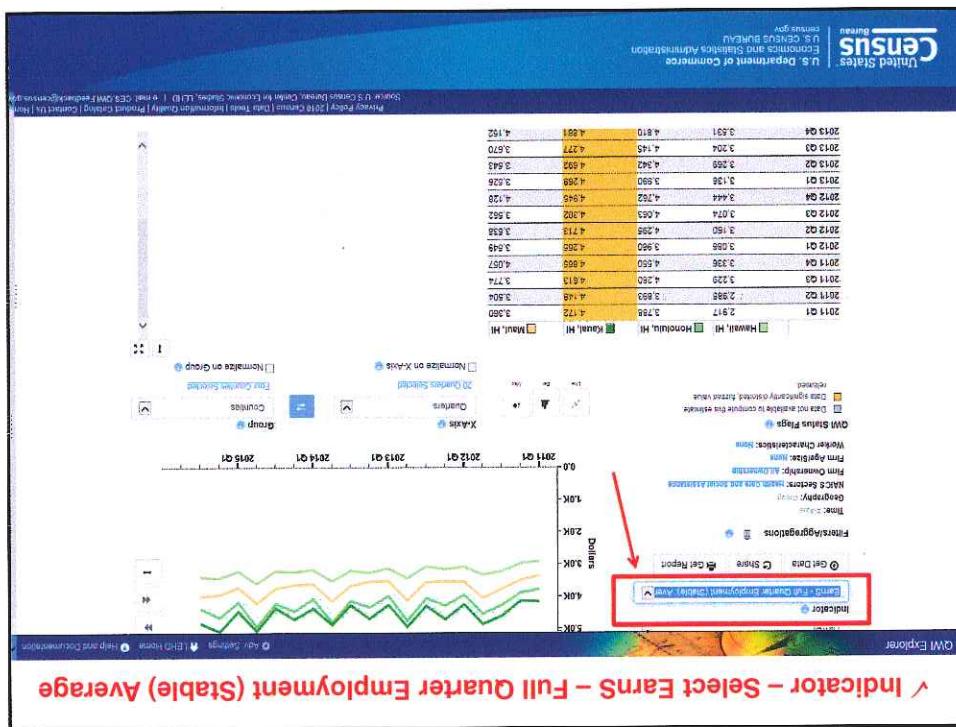
Questions:

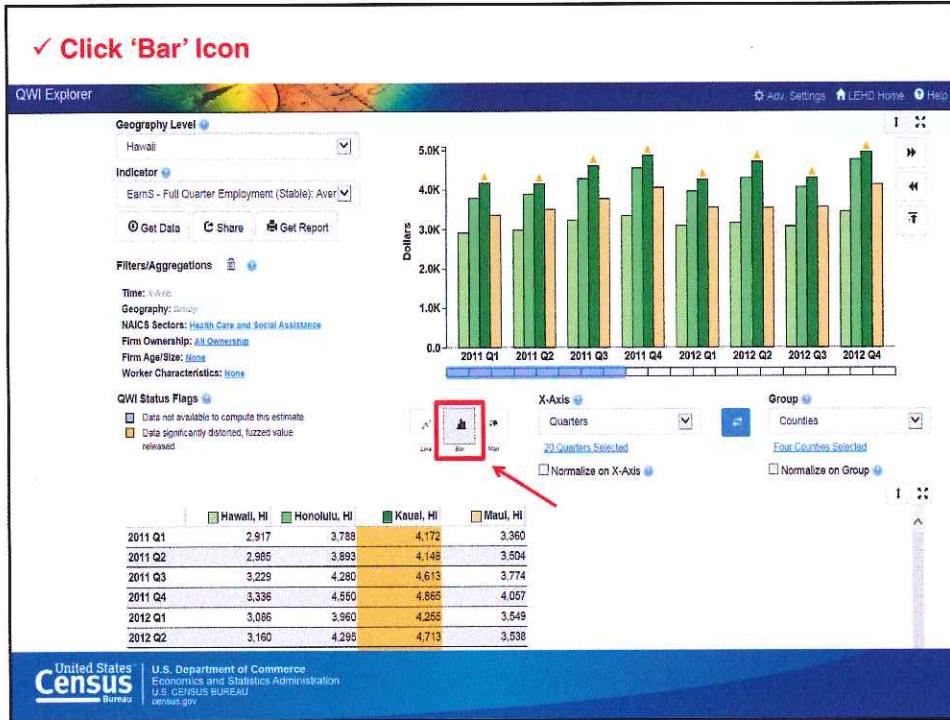
- Looking at four counties of interest, what are the average monthly earnings for these three areas in the Health Care and Social Assistance sector?
- Have the earnings been growing as well?



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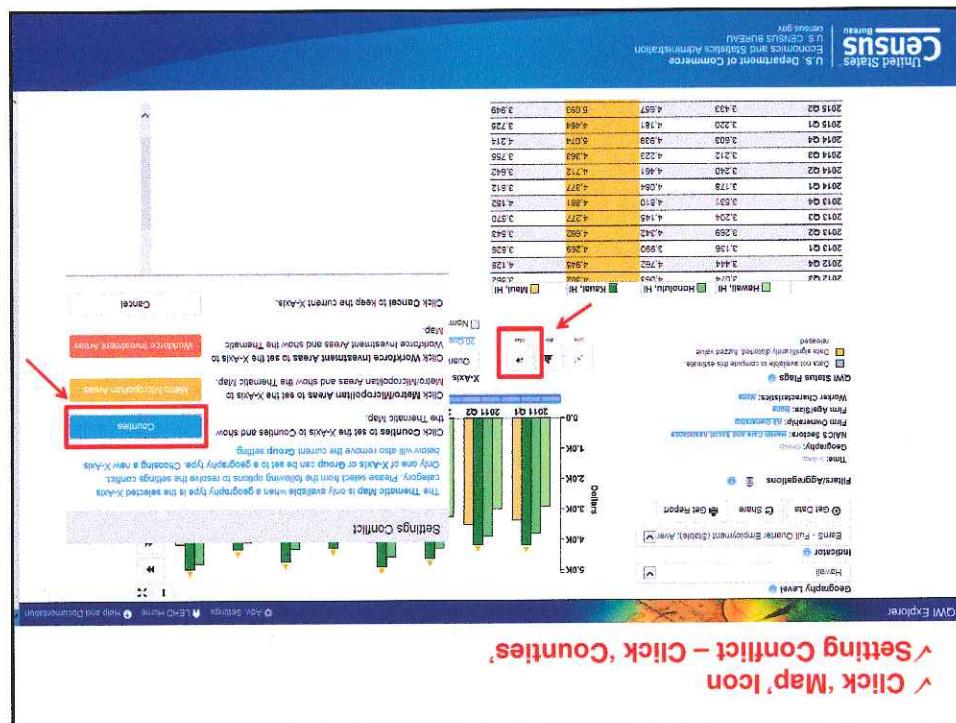
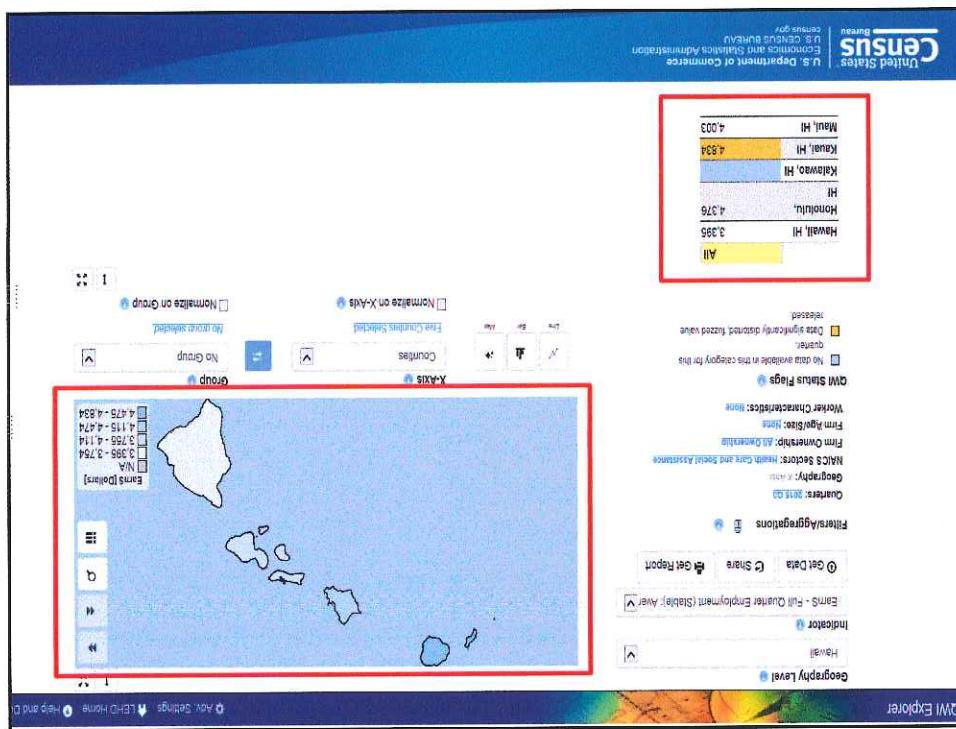
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	Hawaii, HI	Honolulu, HI	Kauai, HI	Maui, HI
2011 Q1	2,917	3,788	4,172	3,360
2011 Q2	2,985	3,893	4,148	3,504
2011 Q3	3,229	4,280	4,613	3,774
2011 Q4	3,336	4,550	4,865	4,057
2012 Q1	3,086	3,960	4,255	3,549
2012 Q2	3,160	4,295	4,713	3,538
2012 Q3	3,074	4,063	4,302	3,562
2012 Q4	3,444	4,762	4,945	4,128
2013 Q1	3,136	3,990	4,269	3,526
2013 Q2	3,269	4,342	4,692	3,543
2013 Q3	3,204	4,145	4,277	3,670
2013 Q4	3,531	4,810	4,881	4,152
2014 Q1	3,178	4,084	4,377	3,612
2014 Q2	3,240	4,461	4,712	3,642
2014 Q3	3,212	4,223	4,363	3,755
2014 Q4	3,603	4,939	5,074	4,214
2015 Q1	3,220	4,181	4,464	3,725
2015 Q2	3,433	4,657	5,093	3,949
2015 Q3	3,395	4,376	4,834	4,003
2015 Q4				

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Answers:

- Looking at four counties of interest, what are the average monthly earnings for these three areas in the Health Care and Social Assistance sector?
 - Hawaii County - \$3,395
 - Honolulu County - \$4,376
 - Kauai County - \$4,834
 - Maui County - \$4,003
- Have the earnings been growing as well?
 - Varied by county



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Question:

- How do earnings in the Health Care and Social Assistance sector compare to earnings in other subsectors in these counties?



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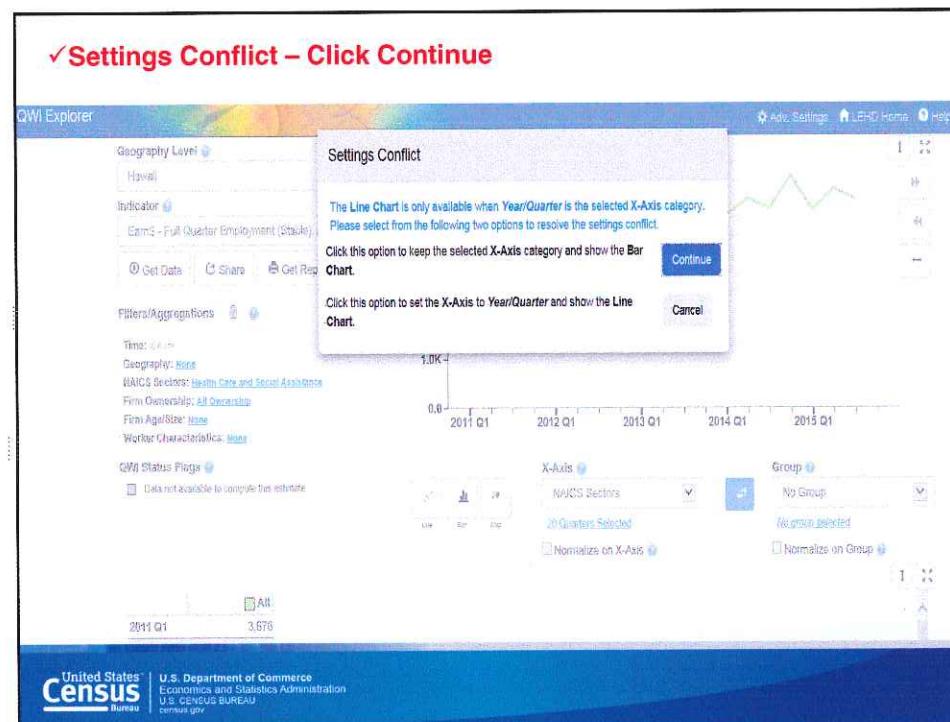
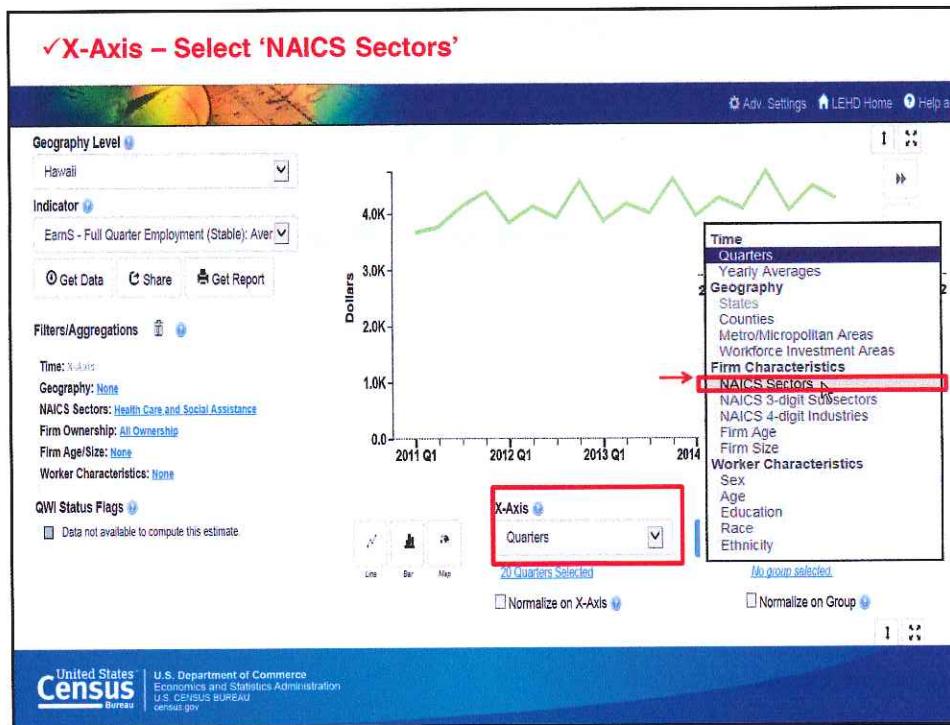
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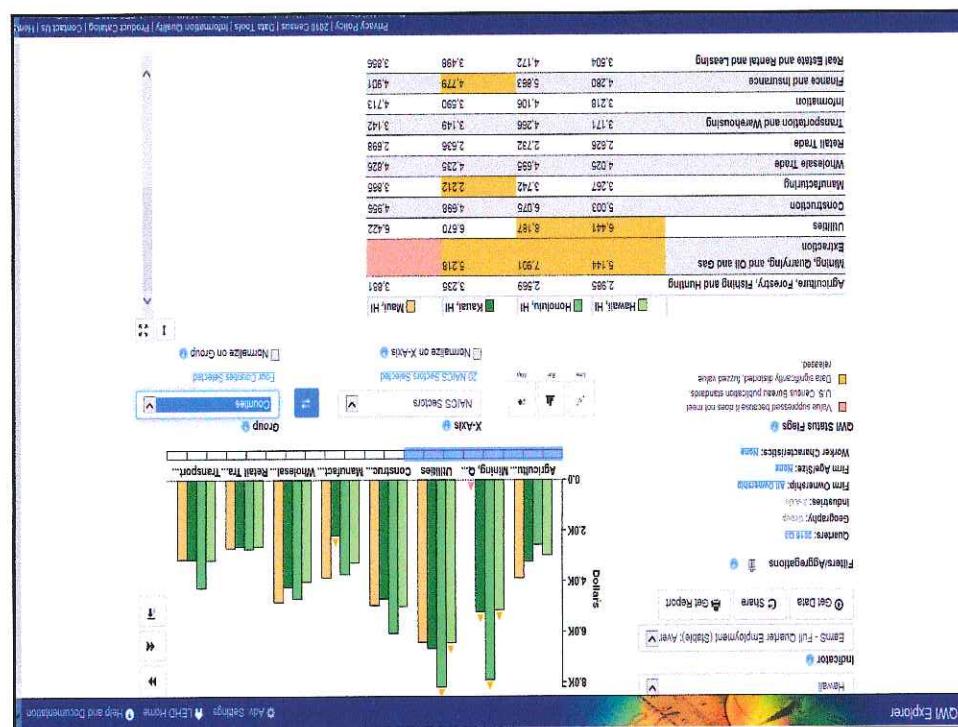
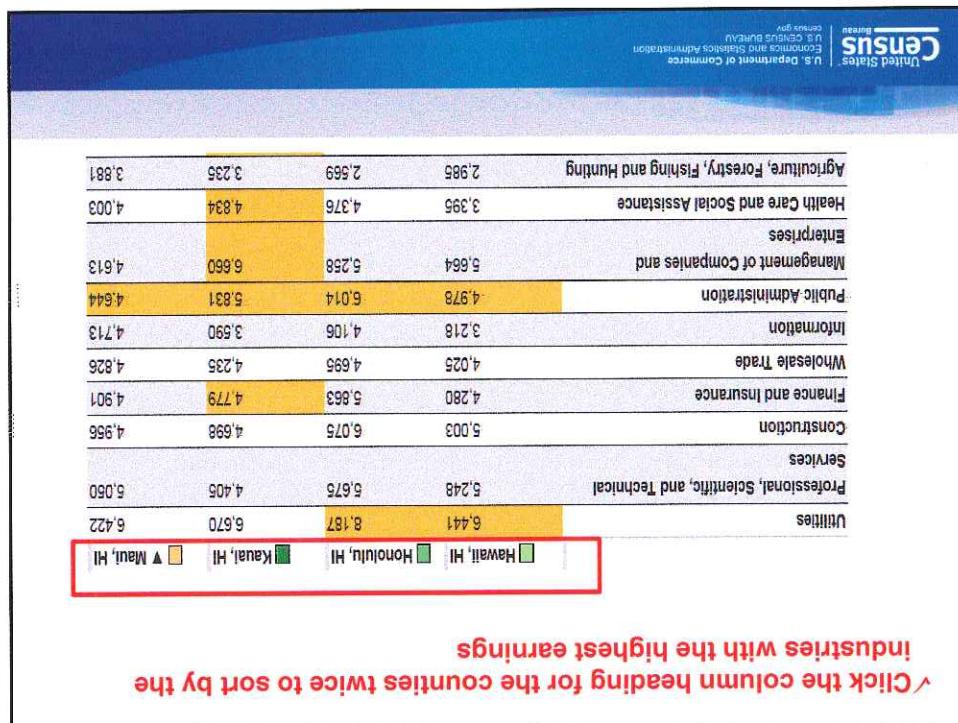
▼ Group - Select Counties

The screenshot shows a QGIS interface with a map of the Hawaiian Islands. A red box highlights the 'Group' button in the toolbar. A red arrow points from the 'Group' button to a dropdown menu labeled 'Counties'. The QGIS interface includes a legend, a table of contents, and various toolbars.

▼ Click 'Line' icon - Click 'Continue'

The screenshot shows a 'Settings Conflict' dialog box with several instructions and buttons. A red box highlights the 'Continue' button. A red arrow points from the 'Continue' button to the 'Line' icon in the toolbar. The QGIS interface includes a map of the Hawaiian Islands and various toolbars.





Resources: Need Assistance?

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Data Dissemination Branch
Customer Liaison and Marketing Services Office



(888) 806-6389 Toll Free



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